## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS          | ID NO. | DATE        |  |  |  |  |
|---------------------------|-------------------|--------|-------------|--|--|--|--|
| POSITION                  |                   |        |             |  |  |  |  |
| FEE DETERMINATION         |                   |        |             |  |  |  |  |
| O.I.P.E. CLASSIFIER       |                   |        |             |  |  |  |  |
| FORMALITY REVIEW          |                   | ·      |             |  |  |  |  |
| RESPONSE FORMALITY REVIEW | $\mathcal{Q}_{t}$ |        | SURFACE     |  |  |  |  |
|                           | _ \ K             |        | J SILMY K-B |  |  |  |  |

## INDEX OF CLAIMS

|         | Rejected            | N | Non-elected  |
|---------|---------------------|---|--------------|
|         | Allowed             | 1 | Interference |
| /Throug | h numeral) Canceled |   | Appeal       |
|         | Restricted          | 0 | Objected     |

| _      |              |           |               |              |            |         | _              |          |              |          |          |           |     |          |          |               |          | Claim Date |          |          |            |               |                 |                 |            |          |          |          |          |           |          |          |  |           |          |   |
|--------|--------------|-----------|---------------|--------------|------------|---------|----------------|----------|--------------|----------|----------|-----------|-----|----------|----------|---------------|----------|------------|----------|----------|------------|---------------|-----------------|-----------------|------------|----------|----------|----------|----------|-----------|----------|----------|--|-----------|----------|---|
| lai    | m            | _         | _             | _            | _          |         | Date           |          | _            |          |          | 4         | 1   | Clai     | m        |               |          |            | ᅮ        | Date     |            | $\overline{}$ |                 | ┰┥              | ١          | -        |          |          |          | 寸         | 1        | 7        | Т  | Т         | Т        | + |
| П      | _ Driginal   | 8         | 10            | 1            | 5.         | T       | T              | T        | 1            |          | ۱ ۱      |           | 1   |          | ā        |               |          |            | 1        | -        |            |               |                 | 11              | 1 )        |          | Original |          |          |           |          |          |  |           |          |   |
| او     | ğ            | 27        | 3             | 1            | 1          | -       |                | -        |              | - 1      | 1        | }         | ļ   | Final    | Original | ļ             |          |            |          |          |            |               | 1               | 11              | 1          | Final    |          |          | 1        |           |          |          | 1  |           |          |   |
| Final  | هٔ           | 03        | 43            | عَلِا        | W          |         | $\perp$        | $\perp$  | $\bot$       |          | Ч        | $\Box$    | ļ   |          |          | +             | +        | +          | +        | +        | +          | +             | +               | +               |            |          | 101      |          | +        | +         | +        | +        | +-   | +         | +        | _ |
| 7      | [1]          | E         | /             | 小            | -          | J       | $ \mathbb{J} $ | J        |              |          | 니        | $\Box$    | ].  |          | 51       | +             | +        | +          | +        | +        | +          | +             | +               | -               |            |          | 102      | ┝╌┼      | $\dashv$ | +         | +        | +        | +  | +         | +        | - |
| 7      | 2            | T         | 7             | 杢            | 丁          | J       | J              | J        |              | ╚        | $\Box$   | $\Box$    | .   |          | 52       | +             | +        | 4          | +        | +        | +          | +             | +               | +-              | 1 1        |          | 103      | -        | +        | +         | +        | +        | +  | +         | +        | _ |
| 7      | 3            |           | 0             | ,T           | 7          | T       | Ţ              | _1       |              |          |          |           |     |          | 53       | $\perp$       | 1        | 1          | 4        | 4        | 4          | +             | 4-              | +-              | <b>l</b> i | 1 1      | 104      | ┯┤       | +        | $\dashv$  | +        | +        | +  | +         | +        | _ |
| 7      | 4            | ᄔ         | 0             | , 1:         |            | J       | コ              | $\Box$   |              |          | $\Box$   | $\Box$    | ۱ ا |          | 54       | 4             | +        | -+         | +        | +        | +          | +             | +               | +               |            |          | 105      | +-+      | +        | $\dashv$  | +        |          | +  | +         | +        | _ |
| 7      | 5            |           | 0             | 2  -         | =          | J       | $\Box$         |          | $\Box$       | تَـا     | $\Box$   | Ш         | ۱ ۱ | <u>'</u> | 55       | 4             | 4        | 4          | 4        | +        | +          | +             | +               | +               | { .        | -        | 106      | ╁┤       | -+       | $\dashv$  | -        | +        | +  | +         | +        | _ |
| $\neg$ | 6            |           | 10            | o  :         | =          | J       |                |          | اتــا        | بَــا    | $\Box$   | $\square$ | 1   | Ц        | 56       | $\perp$       | +        | 4          | +        | +        | -+         | +             | +               | +               | 1          | $\vdash$ | 107      | ╁┪       | -        | $\dashv$  | -+       |          | +  | +         | +        | _ |
| ٦      | 7            | $\prod$   | 0             | ) :          |            | J       |                | لَـا     | لَــا        | تـــا    | $\sqcup$ | Ш         | ۱ ۱ | Ц        | 57       | +             | +        | +          | $\dashv$ | +        | +          |               | +               | +               | 1          | -        | 108      | ╁┤       | -        | +         | +        |          | +  | $^{+}$    | +        | _ |
| _      | 8            |           | a             | , J.         | =          | J       |                | لَـا     | سَا          | L        | $\vdash$ | $\sqcup$  | 1 1 | $\sqcup$ | 58       | -             | +        | +          | $\dashv$ | +        | +          | +             | +               | +               | 1          | -        | 109      | ╁┤       | Н        | +         | -+       | +        | 十  | +         | +        |   |
| -      | 9            |           | 0             | J            | 11 11 11   | _1      |                | تــا     | بَـا         | -        | H        | $\sqcup$  | ļ ļ | $\vdash$ | 59       | 4             | +        | +          | 4        | $\dashv$ | -          | +             | +               | +               | 1          | -        | 110      | ┰        | $\vdash$ | +         | +        | +        | +  | +         | $\top$   | _ |
| _      | 10           |           | O             |              | 3          |         | ╚              | نــا     | L            | <u> </u> | 1        | $\vdash$  | ۱ : | $\vdash$ | 60       | +             | +        | +          | $\dashv$ | +        | +          | $\dashv$      | +               | +               | 1          | $\vdash$ | 111      | +-       | $\vdash$ | -         | +        | $\dashv$ | $\top$   | $\top$    | $\top$   |   |
| _      | 11           |           |               | 1            | <u>. 1</u> |         | تــا           | L        | <u></u>      | _        | <u></u>  | $\vdash$  | [   | $\vdash$ |          | +             | +        | +          | -        | -        | +          | $\dashv$      | +               | +               | 1          | $\vdash$ | 112      | +-1      | $\vdash$ | 닉         | -†       | -+       | - -  | +         | $\top$   |   |
|        | 12           |           |               | 7            | =          |         | لــا           | L        | $\vdash$     | $\vdash$ | ₩        | -         | Į   | -        | 62       | $\dashv$      | 4        | 4          | -        | $\dashv$ | $\dashv$   | $\dashv$      | -+              | +               | 1          | $\vdash$ | 113      | T        |          |           | $\dashv$ | -        | +  | $\top$    | 十        |   |
| _      | 13           |           | $\int_{-}^{}$ | 刁            | 3          |         | تا             | Ĺ        | Ĺ            | Ļ        | 1        | -         |     | _        | 63       | $\dashv$      | 4        | -+         | -        | -        | $\dashv$   | +             | +               | +               | 1          | -        | 114      | 1        | -        | $\vdash$  | +        | 1        | +  | $\dagger$ | +        | _ |
| _      | 14           |           |               | 4            | =          |         | تــا           | Ĺ        | Ĺ            | 1        | 1        | $\vdash$  | l   | H        | 64       | -             | 4        | $\dashv$   | -        | 4        | +          | $\dashv$      | +               | - -             | 1          | -        | 115      | +        | Η        | Н         | +        | $\dashv$ | +  | +         | +        |   |
|        | 15           |           | Ĭ             | ۵            | =          |         | بَـا           | Ĺ        | Ļ            | 1        | +        | $\vdash$  | ļ · | -        | 65       | $\dashv$      | 4        | -+         | -        | $\dashv$ | 4          | -+            | +               | +               | 1          | $\vdash$ | 116      | +        | +        | Н         | 1        | +        | +  | +         | _        |   |
| : ;    | 16           |           | $\mathcal{I}$ | 2            | =          |         | Ĺ              | Ĺ        | Ĺ            | Ļ        | 1        | <u> -</u> | 1   | Ė        | 66       | $\dashv$      | 4        |            | -        | Щ        | $\dashv$   | -+            | +               | +               | 1          | <b> </b> | 117      | +-       | H        |           | $\vdash$ | +        | +  | +         | +        | _ |
| Ŀ      | 17           | <u>/</u>  | J.            | 4            | 7          | اَــا   | Ĺ              | Ĺ        | Ĺ            | $\perp$  | 4        | <u> </u>  | 1   | $\vdash$ | 67       | 4             | 4        | ĻĻ         | 4        | $\vdash$ | $\dashv$   | 4             | +               | +               | 1          | $\vdash$ | 118      | +        | $\dashv$ |           | -        | +        | _  | +         | $\top$   | _ |
|        |              |           | J.            | 2            | =          | تــا    | Ĺ              | Ľ        | Ŀ            | -        | 1        | -         | ₩.  | -        | 68       | 4             | -        |            | H        | $\vdash$ | Н          |               | +               | +               | 1          | -        | 119      | 1-       | $\vdash$ |           | 1-1      | +        | $\dashv$   | -         | _        | _ |
| 1      |              | ~~        | IJ.           | _            | =          | Ĺ       | Ĺ              | Ĺ        | 1            | 1        | $\perp$  | +         | 1   | -        | 69       | 4             | $\dashv$ | $\vdash$   | -        |          |            |               | $\dashv$        | +               | 1          | -        | 120      | 1        | 1-1      |           | $\vdash$ | +        | $\dashv$   | $\dashv$  | $\dashv$ |   |
| ٢      | 20           | ij١       | Π,            | N            |            |         | L              | Ī        | 1            | 1        | L        | L         | 1   | 1        | 70       | $\sqcup$      | $\Box$   | Ц          | <u> </u> | $\vdash$ | ╙          | 4             | 4               | +               | -          | ŀ        |          | +-       | +        | $\vdash$  | $\vdash$ | $\dashv$ | +  | $\dashv$  | +        | - |
| H      | _            | -         |               | ī            | Γ          | Γ       | Γ              | Γ        | I            | $\Gamma$ | $\perp$  | 匚         | 1   | _        | 71       | Ц             | Ц        | Ц          | <u> </u> | 1        | <b>├</b> } | Ч             | $\vdash$        | +               | -          | -        | 121      | +-       | -        | $\vdash$  | $\vdash$ | -        | $\dashv$   | +         | +        | _ |
| ۲      | 22           |           | ŢŤ            | Ţ            | E          | Ŀ       | Γ              | Γ        | $\Gamma$     | $\perp$  | I        | L         | 1   | Ĺ        | 72       | Ц             | Щ        | Н          | <u> </u> | 1        | $\vdash$   | Ц             | $\vdash \vdash$ | +               | 4          | $\vdash$ | 122      | +-       | +        | $\vdash$  | $\vdash$ | -+       | -  | +         | $\dashv$ | - |
| Γ      | 2:           | _         | Ц             | Ţ            | Γ          | Γ       | Γ              | L        | $\perp$      | $\perp$  | 工        | 1         | 1   | <u>_</u> | 73       | $\Box$        | Ц        | -          | <u> </u> | 1        | -          | $\vdash$      | $\vdash$        | +               | $\dashv$   | $\vdash$ | 124      | +        | +        | +         | 1        | $\vdash$ | -+   | +         | $\dashv$ | - |
|        | 24           | 4         | Ц             | Ţ            |            |         | $\Gamma$       | $\Gamma$ | $\perp$      | $\perp$  | $\perp$  | Ĺ         | 1   | L        | 74       | $\vdash$      | <u>_</u> | -          | -        | -        | 1          | $\vdash$      | $\mapsto$       |                 | 4          | $\vdash$ | 125      | +        | +-       | +         | H        | $\vdash$ | $\dashv$   | $\dashv$  | -+       | + |
| Ī      | 2!           | 5         | Ţ             | T            | $\Gamma$   |         | I              | I        | $\perp$      | Ţ        | $\perp$  | Ţ         | 1   | L        | 75       | H             | <u> </u> | $\vdash$   | -        | -        | $\vdash$   | -             | $\vdash$        | +               | 4          | -        | 126      | +        | +        | +         | 1        | ┞┤       | -+   | $\dashv$  | +        | ۲ |
| Γ.     | 26           |           | П             | J            | $\Gamma$   | $\Box$  | $\Box$         | Ţ        | Ţ            | ľ        | Ţ.       | 1         | 1   | _        | 76       | $\vdash$      | <u> </u> |            | $\vdash$ | +        | 1          | -             | $\vdash$        | 4               | -          | -        | 127      | +-       | +        | +-        | +        | $\vdash$ | +  | $\dashv$  | $\dashv$ | ۲ |
| Γ      | 2            |           | O             |              | $\Box$     | $\Box$  | L              | Ĺ        | Ţ            | 1        | $\perp$  | 1         | 4   | L        | 77       | <del> </del>  | $\vdash$ | -          | +-       | +        | -          | -             | ┥               | +               | $\dashv$   | $\vdash$ | 128      | +-       | +        | $\dagger$ | +-       | $\vdash$ | -  |           | 1        | ٢ |
| F      | 21           | _         |               | $\mathbf{I}$ | $\perp$    | Ĺ       | L              | Ĺ        | 4            | 1:       | 4        | 4         | վ . | 1        | 78       |               | $\vdash$ | -          | ┼        | +        | -          | $\vdash$      | $\vdash$        | +               | $\dashv$   | $\vdash$ | 129      | +        | +-       | $\dagger$ | 1        |          |  | $\dashv$  | 1        | T |
| E      | 21           |           |               | $^{!}$       | F          | Ĺ       | $\perp$        | $\perp$  | 1            | 1        | 上        | 1         | 4   | -        | 79       |               | -        | +          | +        | +-       | +          | $\vdash$      | $\vdash$        | ┯               | $\dashv$   | H        | 130      | +        | +        | +-        | 1        | $\vdash$ |  | -         | П        | Γ |
| [      | <b>3</b>     | 30)       |               | $\coprod$    | L          | Ĺ       | L              | 1        | $\perp$      | 4        | 1        | +         | 4   | -        | 80       | _             | ├-       | +          | +        | +-       | +          | +-            | +               | +               | $\dashv$   | <b>-</b> | 131      | +        | +        | +         | $\top$   | $\Box$   |  |           | П        | T |
|        |              | 31        | Ū             | $\coprod$    | L          | Ŀ       | 1              | 1        | $\perp$      | 1        | 4        | +         | 4   | $\vdash$ | 81       |               | -        | +-         | +        | +        | +-         | +             | +               | +               | -          | <b> </b> | 132      | +-       | +        | +         | T        | $\Box$   |  | П         | П        | Γ |
| Ŀ      |              | 32        | $\square$     | $\Pi$        | Ĺ          | Ĺ       | 上              | 1        | 1            | 1        | 1        | 4         | 4   | -        | 82       | -             | $\vdash$ | +-         | +        | +-       | +-         | +             | +               | $\dashv$        | $\dashv$   | $\vdash$ | 133      | +-       | +        | +         | +        |          | Н  | Н         | П        | T |
|        |              | 33        | Ú             | Ц            | 1          | Ĺ       | 1              | 1        | 1            | 4        | +        | 4         | 4   | -        | 83       |               | +        | +          | +        | +        | +          | +             | +               | +               | $\dashv$   | +        | 134      | +-       | +-       | +-        | 1        | П        | П  | П         | П        | T |
|        |              | 34        | لَل           | Ц            | 1          | $\perp$ | 1              | 1        | 4            | 4        | 4        | +         | 4   | $\vdash$ | 85       |               | $\vdash$ | +          | +-       | +        | +          | +-            | +-              | +-+             | $\dashv$   | 卜        | 135      | +        | +        | +         | T        |          | П  |           | П        | T |
|        |              | 35        | لَل           | Ц            | 1          | 1       | 1              | 1        | 4            | 4        | 4        | +         | -   | 1        | 85<br>86 |               | +        | +          | +        | +-       | +          | +             | +               | $\vdash \vdash$ | $\dashv$   | <b> </b> | 136      | +        | +        | +         | 1        | 1        | $\sqcap$   | П         |          | T |
|        |              | 36        | Ĺ             | Ц            | 1          | 1       | 4              | 1        | 4            | 4        | 4        | +         | 4   | ļ        | 86       |               | +        | +          | +        | +-       | +          | +             | +-              | ++              | $\dashv$   | 卜        | 137      | +        | +        | +         | 1        | 1        | $\sqcap$   | П         | П        | T |
| L      |              | 37        | L             | Ц            | 丄          | 1       | 1              | 4        | 4            | 4        | 4        | +         | 4   | H        | 88       |               | +        | +          | 十        | +        | +          | +             | +               | ╁┼              | $\dashv$   | +        | 138      | 1        | +        | $\top$    | 1        | $\top$   |  |           |          | Ţ |
| Ĺ      |              | 38        | L             | Ц            | Ц_         | 4       | +              | +        | +            | 4        | +        | +         | 4   | -        | 89       |               | +        | +          | +        | +        | +          | +             | +               | +               | $\dashv$   | 卜        | 139      | - -      | $\top$   | 十         | $\top$   | 1        |  |           |          | Ţ |
| Ĺ      | _            | 39        | Ĺ             | Ц            | 4          | 4       | 1              | 4        | 4            | +        | +        | +         | 4   | -        | 90       | _             | +        | +          | +        | +        | +-         | +-            | +-              | ++              | $\dashv$   | 卜        | 140      | +        | +        | +         | $\top$   | Т        |  | П         | Γ        | T |
| I      |              | 40        | L             | Ц            | Щ          | $\perp$ | 1              | 1        | _            | 4        | $\perp$  | 4         | 4   | $\vdash$ |          | _             | +        | +-         | +        | +        | +          | +             | +               | ₩               | $\dashv$   | F        | 141      | +        | +        | +         | +        | 1        | $\vdash$   | $\vdash$  | $\top$   | t |
| ſ      |              | 41)       | <u>[</u>      | Ц            | II.        | Ĺ       | Ţ              | $\perp$  | $\perp$      | $\perp$  | $\perp$  | $\perp$   | 1   | L        | 91       |               | +        | +          | +        | +        | +          | +             | +               | +               | $\dashv$   | F        | 142      | -+-      | +        | +         | +        | +        |  | 1         | T        | † |
| Ţ      | ゴ            | 12        | I             |              | II         | $\perp$ | $\perp$        | Ţ        | $\perp$      | $\perp$  | $\perp$  | $\perp$   | 4   | L        | 92       | $\overline{}$ | +        | +          | +        | +        | +          | +             | +               | ++              | $\dashv$   | }        | 143      | +        | +-       | +         | +-       | +        | <del>                                     </del> | 1         | T        | t |
|        | $\mathbb{J}$ | 43<br> 44 | Ţ             | 4            | μĪ         | Ĺ       | 1              | $\perp$  | $\perp$      | $\perp$  | $\perp$  | $\perp$   | 4   | -        | 93       | <del></del>   | +        | +          | +        | +        | +          | +             | +               | ++              | $\dashv$   | H        | 144      |          | +        | +         | +        | +        | T  | 1         | T        | t |
| ٦      | J            | 44)       | Ţ             | D            | $\coprod$  | $\perp$ | $\perp$        | $\perp$  | $\perp$      | $\perp$  | $\perp$  | $\perp$   | 1   | L        | 94       |               | +        | +          | +        | +        | +-         | +             | +               | ++              | $\dashv$   | }        | 145      | -+       | +-       | +         | +-       | +        |  | 1         | 1        | † |
| Ť      |              | 45        |               | I            | V          | 1       | Ţ              | $\perp$  | 1            | _[       | 1        | 4         | _   | 1        | 95       |               | +        | +          | +        | +        | +          | +             | +-              | ┼┼              | $\dashv$   | -        | 146      | +        | +-       | +         | +        | +        | T  | T         | T        | † |
|        |              | 46        | _             | Ĺ            | <u>يا</u>  | 4       | Ţ              | 1        | 1            | $\perp$  | $\perp$  | $\bot$    | 4   | -        | 96       |               | +        | +          | +        | +        | +          | +             | +               | +               | $\dashv$   | <b>-</b> | 147      | +        | +        | +         | +        | 1        | 1  |           | T        | † |
| ſ      |              | 47        | _             | Ĺ            | 1          | 4       | 1              | $\perp$  | $\perp$      | $\perp$  | $\perp$  | 4         | _   | L        | 97       |               |          | +          | +        | +        | +          | +             | +               | ++              | $\dashv$   | -        | 148      |          | +        | +         | +        | +        |  | +         | $\top$   | † |
| ſ      |              | 48        | Ĺ             | T            | 1          | $\perp$ | $\perp$        | $\perp$  | $\perp$      | _[       | _[       | 1         | 1   | -        | 98       |               | +        | +          | +        | +        | +          | +             | +-              | ┿               | -          | +        | 149      | $\dashv$ | -†-      | +         | +-       | $\top$   | 1  | 1         | 1        | † |
|        |              | 49        | لَــا         | Ĺ            | 1          | 1       | 1              | 1        | $\downarrow$ | 4        | 4        | 4         | 4   | F        |          |               | +        | +          | +        | +        | +          | +             | +               | ╁┼              | 一          | Ļ        | 150      | +        | +        | $\dagger$ | 1        | $\top$   | 1  | T         | T        | Ť |
| ſ      | [            | 50        | ١ .           | 1            | - 1        | - 1     | - 1            | ĺ        | - 1          |          | - 1      | - I       | ı   | ĺ        | h0       | IU)           | ŀ        | 1          | - 1      | - 1      | •          | ١.            |                 | لسل             |            | L        | -1,54    |          |          |           |          |          |  | _         |          | - |

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